

NWS FORM E-19 (COVER)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

REPORT ON RIVER GAGE STATION

REVISED, PRINTED DATES: 10/14/2011, 10/14/2011

LOCATION: Portola
STREAM: Middle Fork Feather River
BASIN: Feather River HSA: REV

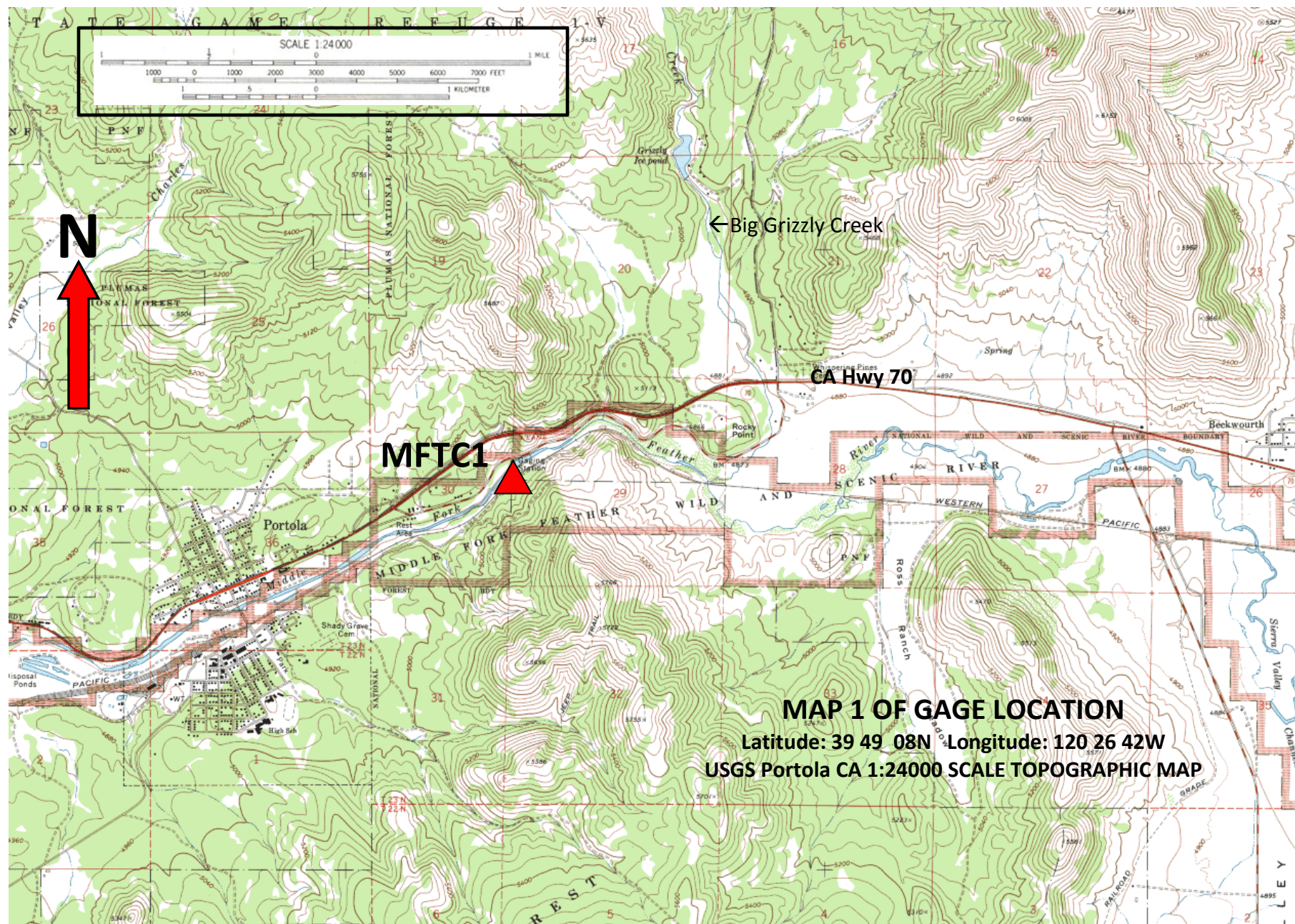
REFERENCES:

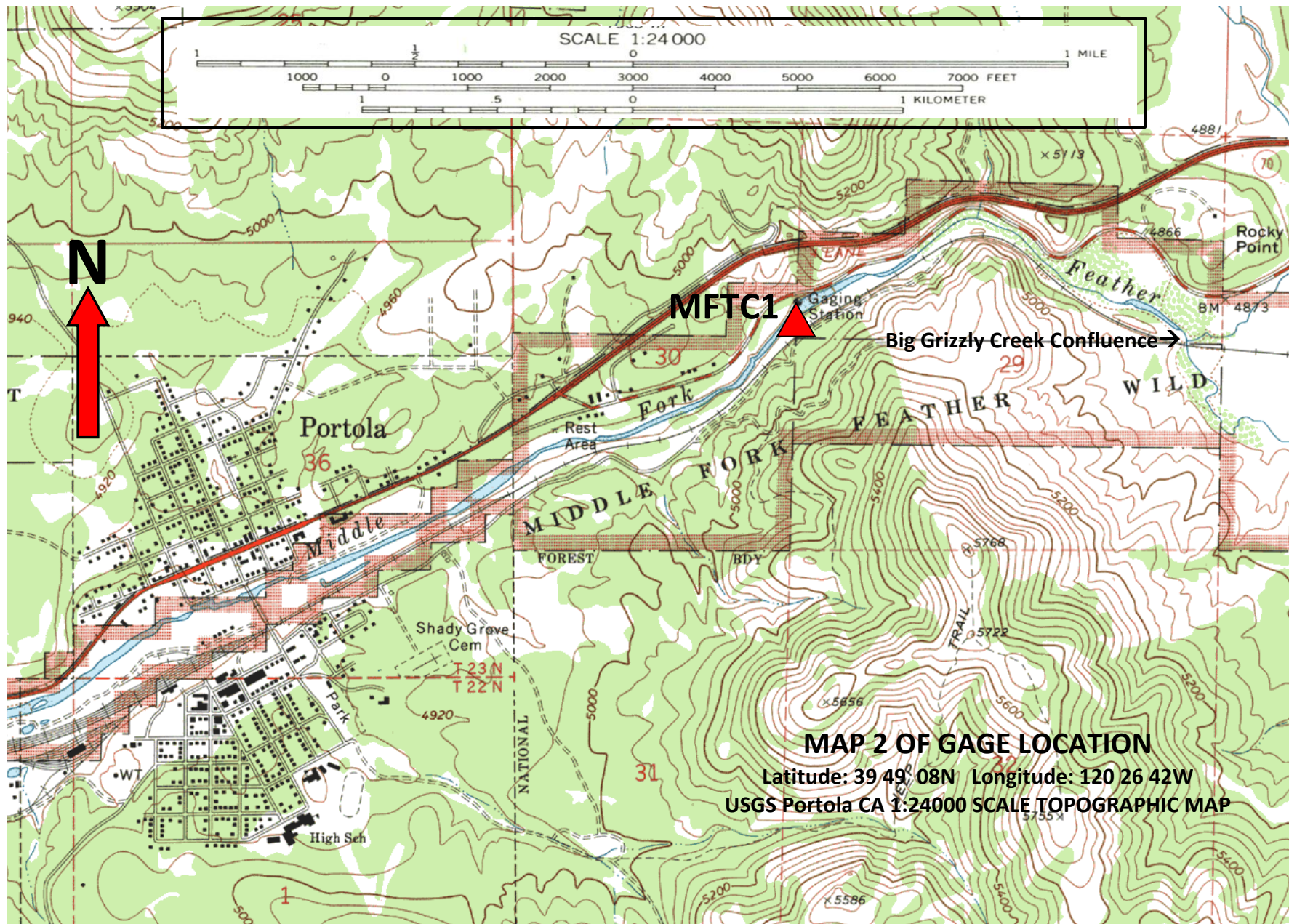
CADWR Rating Table 34, Middle FK Feather R NR Portola, 9/20/2011
Correspondence w/CADWR (Red Bluff, Beckwourth, Sacramento) Personnel
Correspondence w/City of Portola Public Works and Town Manager
Correspondence w/Plumas Co. Emergency Manager
De Lorme XMaps V4.5
Google Earth and Google Maps
NWS Reno Monthly Reports of River and Flood Conditions (NWS Form E5)
USGS Antelope Valley 7.5 Minute Quadrangle, 1981
USGS Blairsden 7.5 Minute Quadrangle, 1972
USGS Calpine 7.5 Minute Quadrangle, 1981
USGS Clio 7.5 Minute Quadrangle, 1981
USGS Floods of December 1964 in the Far Western States
USGS Floods of Jan-Feb 1963 in CA & NV
USGS Peak Flow Data, Middle Fk Feather nr Clio, WY 1926-1979
USGS Peak Flow Data, Middle Fk Feather nr Portola, WY 1969-1980
USGS Portola 7.5 Minute Quadrangle, 1972
USGS Reconnaissance Peak 7.5 Minute Quadrangle, 1972
USGS Water Resources Data, Middle Fk Feather nr Clio, CA; WY 1926-1979
USGS Water Resources Data, Middle Fk Feather nr Portola, WY 1969-1980

ABBREVIATIONS:

BM - bench mark	EPA - Environmental Protection Agency
DS - downstream	IBWC - International Boundary and Water Comm.
US - upstream	MSRC - Mississippi River Commission
HW - high water	MORC - Missouri River Commission
LW - low water	NOAA - National Oceanic and Atmospheric Admin.
RB - right bank	NOS - National Ocean Survey
LB - left bank	NWS - National Weather Service
MGL - mean gulf level	TVA - Tennessee Valley Authority
MLW - mean low water	USACE - U.S. Army Corps of Engineers
MSL - mean sea level	USBR - U.S. Bureau of Reclamation
MLT - mean low tide	USGS - U.S. Geological Survey
MT - mean tide	USWB - U.S. Weather Bureau
WQ - water quality	NGVD - National Geodetic Vertical Datum
RM - reference mark	NAD - North American Datum
RP - reference point	

LOCATION IDENTIFICATION: MFTC1
NWS INDEX NUMBER:
USGS NUMBER: 11392100



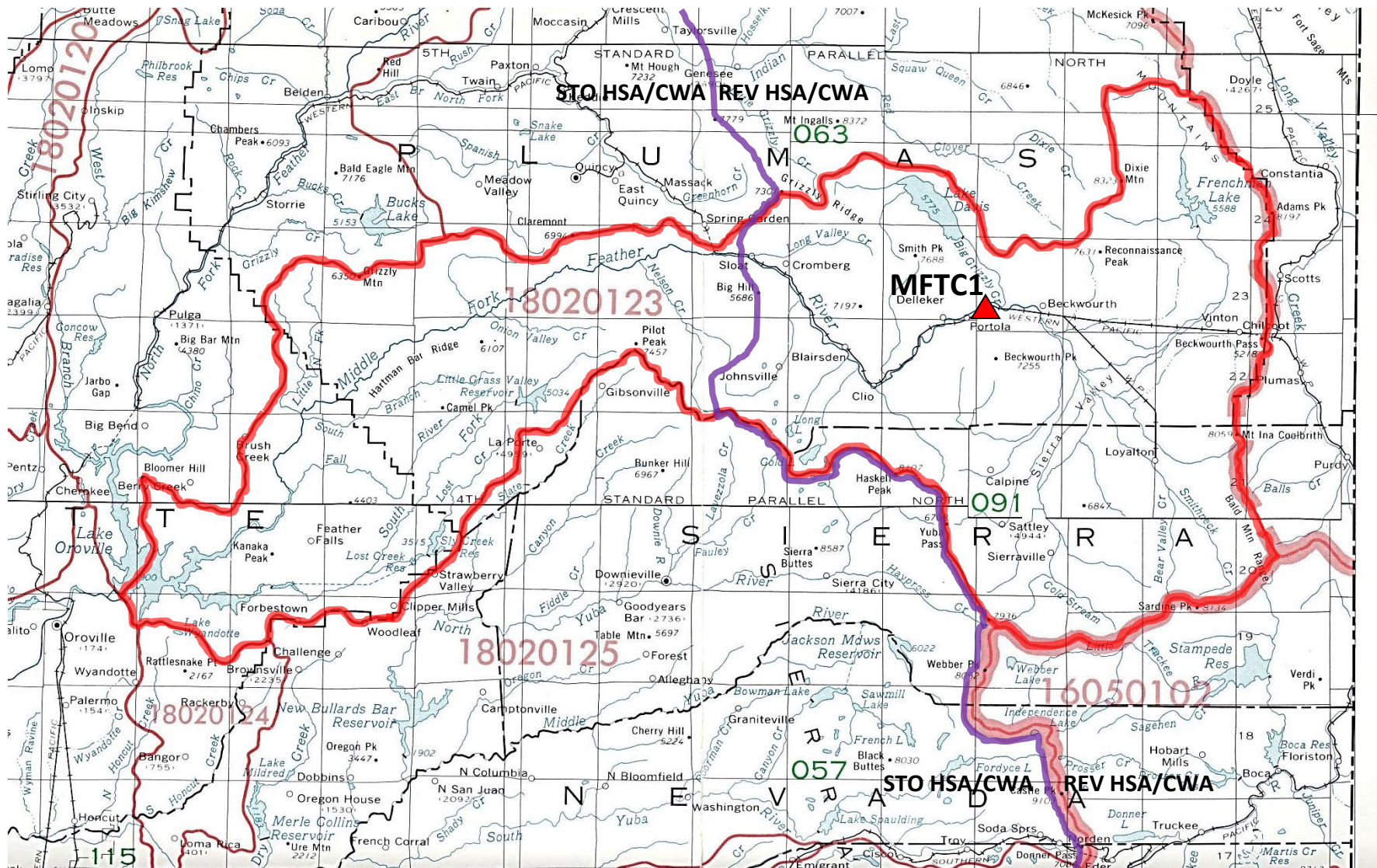




Aerial view of Middle Fork Feather River, from just west of gage east to the Sierra Valley. View is to ENE.
Middle Fork Feather River near Portola CA (MFTC1) HSA: REV October 2011 Page 4



Aerial view of Middle Fork Feather River Valley, from Portola east to the Sierra Valley. View is to ENE.



Middle Fork Feather River Basin. Purple line is boundary between REV and STO HSA/CWA.

MFTC1 Gage Reach: Confluence of Big Grizzly Ck below Beckwourth to confluences of Willow and Sulphur Creeks near Clio CA .

Flood Watch/Warning Product Reach based on MFTC1 forecasts: Beckwourth to Sloat CA

BENCHMARKS

ELEVATION OF GAGE ZERO: 4850.000 VERTICAL DATUM: NGVD1929
LEVELING AGENCY AND DATE: CA DWR CHECKBAR:
RATING AGENCY: CA DWR

BENCHMARK	DESCRIPTION	GAGE ZERO	DATUM
UNK	Benchmark info for MFTC1 was unavailable as of 10/2011.		

GAGES

DCP
 NESS ID: CA304120
 OWNER: STATECA
 REPORT TIME: 00:39:00
 INTERVAL: 60

TELEM
 TYPE OF TELEMETRY: alert
 OWNER: Assoc
 PHONE NUMBER:
 INTERVAL:

PAYOR/COST OF LINE: Assoc / \$

GAGE TYPE	OWNER	MAINTENANCE	BEGAN	ENDED	GAGE LOCATION/REMARKS
CREST STAG	USGS	USGS	10/01/1968	09/30/1980	On RB, 1.0 MI DS of confluence w/Grizzly Ck; 1.5 MI US of S Gulling St Br in Portola.
FLOAT	USGS	USGS	10/01/1968	09/30/1980	On RB, 1.0 MI DS of confluence w/Grizzly Ck; 1.5 MI US of S Gulling St Br in Portola.
IS STAFF	USGS	USGS	10/01/1968	09/30/1980	On RB, 1.0 MI DS of confluence w/Grizzly Ck; 1.5 MI US of S Gulling St Br in Portola.
OS STAFF	USGS	USGS	10/01/1968	09/30/1980	On RB, 1.0 MI DS of confluence w/Grizzly Ck; 1.5 MI US of S Gulling St Br in Portola.
RECORDER	USGS	USGS	10/01/1968	09/30/1980	On RB, 1.0 MI DS of confluence w/Grizzly Ck; 1.5 MI US of S Gulling St Br in Portola.
DCP	State DWR	State DWR	08/28/2006		Design Analysis 522+ Waterlog DCP driven by shaft encoder. In gage house on RB just off Rocky Point Rd; 1.0 MI DS of confluence w/Grizzly Ck; 1.5 MI US of S Gulling St Br in Portola.
IS STAFF	State DWR	State DWR	08/28/2006		In gage house on RB just off Rocky Point Rd; 1.0 MI DS of confluence w/Grizzly Ck; 1.5 MI US of S Gulling St Br in Portola.
OS STAFF	State DWR	State DWR	08/28/2006		On RB, 1.0 MI DS of confluence w/Grizzly Ck; 1.5 MI US of S Gulling St Br in Portola. 3 staff sections: 1.0-6.92'; 7.2-12.0'; 7.4-15.0'.
RECORDER	State DWR	State DWR	08/28/2006		Design Analysis 522+ Waterlog recorder driven by shaft encoder. In gage house on RB just off Rocky Point Rd; 1.0 MI DS of confluence w/Grizzly Ck; 1.5 MI US of S Gulling St Br in Portola.
SHFT ENCDR	State DWR	State DWR	08/28/2006		Vaisala Model 436B encoder drives DCP & recorder. In gage house on RB just off Rocky Point Rd; 1.0 MI DS of confluence w/Grizzly Ck; 1.5 MI US of S Gulling St Br in Portola.

HISTORY

TYPE OF GAGE	OWNER	STARTING DATE	ENDING DATE
CREST STAG	USGS	10/01/1968	09/30/1980
FLOAT	USGS	10/01/1968	09/30/1980
IS STAFF	USGS	10/01/1968	09/30/1980
OS STAFF	USGS	10/01/1968	09/30/1980
RECORDER	USGS	10/01/1968	09/30/1980
DCP	State DWR	08/28/2006	
IS STAFF	State DWR	08/28/2006	
OS STAFF	State DWR	08/28/2006	
RECORDER	State DWR	08/28/2006	
SHFT ENCDR	State DWR	08/28/2006	

ZERO ELEVATION
4850.000

STARTING DATE
10/01/1968

CRESTS*

FLOOD STAGE: 8.50 ACTION STAGE: 7.00 BANKFULL STAGE: 9.00
FLOOD FLOW: 4090 ACTION FLOW: 2330

DATE OF CREST	TIME LST	CREST (ft)	FLOW (CFS)	FROM HIGH WATERMARKS	BASED ON OLD DATUM	CAUSED BY ICE JAM	REMARKS
01/21/1969	UNDEF	10.62	7640				Measured stg, 10.18'. Stg obtained using CADWR RT34 (9/20/2011).
01/25/1970	UNDEF	9.11	4970				Measured stg, 8.81'. Stg obtained using CADWR RT34 (9/20/2011).
03/27/1971	UNDEF	10.07	6580				Measured stg, 9.64'. Stg obtained using CADWR RT34 (9/20/2011).
01/18/1973	UNDEF	7.32	2660				Measured stg, 6.88'. Stg obtained using CADWR RT34 (9/20/2011).
03/31/1974	UNDEF	8.17	3650				Measured stg, 7.79'. Stg obtained using CADWR RT34 (9/20/2011).
03/27/1975	UNDEF	7.74	3120				Measured stg, 7.42'. Stg obtained using CADWR RT34 (9/20/2011).
01/17/1978	UNDEF	7.73	3110				Measured stg, 7.43'. Stg obtained using CADWR RT34 (9/20/2011).
01/14/1980	UNDEF	9.56	5690				Measured stg, 9.42'. Stg obtained using CADWR RT34 (9/20/2011).
03/17/2011	11:00	9.03	4851				Measured crest.

*NOTE: All crest stages were converted to from crest flows using CADWR Rating Number 34, in use 10/14/2011. Actual measured crests are noted in remarks. Only annual crests above 2000 cfs are included.

LOW WATER RECORDS*

DATE OF LOW WATER	STAGE (ft)	FLOW (CFS)	REMARKS
10/04/1968	1.56	6	5.6 cfs, 1/4-5/1968 (Stg est w/CADWR Rtg 34)
09/11/1969	1.44	3	3.1 cfs, 9/11-12/1969 (Stg est, CADWR Rtg 34)
09/18/1970	1.55	5	5.3 cfs, stg est w/CADWR Rtg 34 (9/20/2011)
07/09/1972	1.54	5	Stg est w/CADWR Rtg 34 (9/20/2011)
08/08/1973	1.51	4	4.3 cfs; stg est w/CADWR Rtg 34 (9/20/2011)
09/24/1976	1.44	3	3.1 cfs, stg est w/CADWR Rtg 34 (9/20/2011)
10/01/1977	1.44	3	3.1 cfs, 10/1-4/1977. Stg est w/CADWR Rtg 34
09/15/1978	1.45	3	3.3 cfs, 9/15-16/1978. Stg est w/CADWR Rtg 34
09/04/1979	1.51	4	4.3 cfs. Stg est w/CADWR Rtg 34 (9/20/2011)
08/26/1980	1.71	10	8/26-30 & 9/5-6/1980. Stg est w/CADWR Rtg 34
10/04/2007	1.64	8	7.7 cfs; stg est w/CADWR Rtg 34 (9/20/2011)
07/17/2009	1.60	6	7/17,18,30,31/2009. Measured stage.
10/07/2009	1.62	7	6.5 cfs. Measured stage.

*NOTE: All stages listed were converted from low flows using CADWR Rating Number 34, in use 10/14/2011. All flows are daily averages. Only annual daily minimum low flows below 10 cfs are included.

CONDITIONS AFFECTING FLOW

MILES ABOVE MOUTH:

DRAINAGE AREA: 586.0

POOL STAGE:

STREAM BED: Gravel, cobbles, small boulders; large boulders on DS RB

REACH: NOTE:

Gage Reach: Confluence of Big Grizzly Ck below Beckwourth to confluences of Willow and Sulphur Creeks near Clio CA .

Flood Watch/Warning Product Reach based on MFTC1 forecasts: Beckwourth to Sloat CA

REGULATION: Flow partially regulated by Lake Davis (Grizzly Valley Dam on Big Grizzly Ck, Max Storage 83000 AF) beginning in 1966 and Frenchman Lake (Frenchman Dam, on Little Last Chance Ck, Max Storage 55477 AF) beginning in 1961.

DIVERSION: Many diversions in Sierra Valley for irrigation.

WINTER: Subject to freezing during extreme cold periods mid-winter.

TOPOGRAPHY: Narrow (~0.2-0.4 mi. wide) deep (~200-500') canyon from Rocky Pt. (~1mi above gage) to above Portola (~0.8 mi blo gage). Above Rocky Point, Sierra Valley is broad, flat, marshy; river is braided, subject to ponding. Channel narrows again below Portola to Clio.

REMARKS: Channel straight for about 1250 ft. below and 800 ft above gage. Channel narrows at control about 200 ft. below gage. Subject to beaver dams at all except high flows.

DAMAGE

STAGE	AREAS AFFECTED
7.00	Monitor Stage, Approx. 2350 cfs. No flooding in between Beckwourth and Sloat, CA.
7.50	Some areas of very minor out of bank flow in reach between Beckwourth and Sloat California. Approx. 2850 cfs.
8.00	Some areas of minor out of bank flow in reach between Beckwourth and Sloat California...including Portola. Approximately 3440 cfs.
8.50	Flood Stage, some minor lowland flooding in reach between Beckwourth and Sloat California, including Portola. Approx. 4100 cfs.
9.00	Minor flooding of lowlands, rural roads, agricultural areas and some low structures between Beckwourth and Sloat California, including Portola. In Portola...water as high as 2 ft below CA Hwy 70 road surface. Nearing Sleepy Pines Motel and just below propane tanks on Hwy 70. About 1.5 to 2 feet below foundations of Veterans Hall and low homes along river near Hwy 70. South end of West Street in Portola flooded, nearing foundations of lowest homes. Sewage ponds in Portola nearing capacity. Portion of CA Hwy 89 near Clio begins to flood. Approx. 4800 cfs. Like flood of 3/17/2011.
9.50	Moderate flooding of lowlands...roads and low-lying structures in reach from Beckwourth to Sloat, California, including Portola. In Portola...Sleepy Pines Motel on CA Hwy 70 begins to experience some minor flooding. Water near bottom of large propane tanks along Hwy 70. South end of West Street flooded, nearing lowest homes. Sewage ponds in Portola at capacity. River within about a foot of foundation of Veterans Hall and some low homes along river. CA Hwy 89 near Clio flooded. Approx. 5600 cfs, like flood of 1/14/1980.
10.00	Moderate flooding of lowlands, structures and roads from Beckwourth to Sloat, California, including Portola. Sleepy Pines Motel and other low structures along river in Portola flood. Evacuation of homes on south end of West Street begins. Sewage ponds in Portola may exceed capacity and may need to release to river. River near foundation of Veterans Hall in Portola. CA Hwy 89 near Clio flooded. About 6450 cfs. Like flood of 3/27/1971.
10.50	Major...near record flooding of lowlands...roads...railroads...homes...businesses and structures along river from Beckwourth to Sloat, CA, including Portola, with significant damage. Approx. 7400 cfs; like record flood of January 21 1969 (7640 cfs).
11.00	Major...record flooding of homes...businesses...structures...roads...railroads...bridges from Beckwourth to Sloat, CA, including Portola. Approx. 8400 cfs. Before gage record...this flow was likely exceeded during floods of 2/21/1927...3/26/1928...4/6/1952...12/23/1955...2/1/1963...12/24/1964...1/2/1997. In 1/2/1997 flood...extensive damage (over \$90 million in 1997 dollars in eastern Plumas Co.) to homes...bridges...roads and railroads. Flooding caused a 50 ft section of CA Hwy 70 between Blairsden and Sloat to collapse.

RIVER STAGE DATA

			14-	

			13-	

			12-	

			11-	
11.00	- Major...record flooding of homes...businesses...structures...roads...railroads ...bridges from Beckwourth to Sloat, CA, including Portola. Approx. 8400 cfs. Before gage record...this flow likely exceeded during floods of 2/21/1927...3/26/1928 4/6/1952...12/23/1955...2/1/1963 ...12/24/1964...1/2/1997. In 1/2/1997 flood... extensive damage (over \$90 million in 1997 dollars) to homes...bridges...roads and railroads. Flooding caused a 50 ft section of CA Hwy 70 between Blairsden and Sloat to collapse.		-----	10.62 01/21/1969

			10-	10.07 03/27/1971

			9.56	01/14/1980
10.50	- Major...near record flooding of lowlands...roads...railroads...homes...businesses and structures along river from Beckwourth to Sloat, CA, including Portola, with significant damage. Approx. 7400 cfs; like record flood of January 21 1969 (7640 cfs).		-----	9.11 01/25/1970

10.00	- Moderate flooding of lowlands, structures, roads Beckwourth to Sloat, CA, including Portola. Sleepy Pines Motel and lowest structures near river in Portola flood. Evacuation of homes S end of West St begins. River near foundation of Veterans Hall. Sewage ponds in Portola may exceed capacity and may need to release to river. In Portola. CA 89 near Clio floods. About 6450 cfs, Like 3/27/1971 flood.		-----	
			8-	8.17 03/31/1974

9.50	- Moderate flooding of lowlands...roads and very low-lying structures in reach from Beckwourth to Sloat, California, including Portola. In Portola...Sleepy Pines Motel on CA Hwy 70 begins to experience some minor flooding. Water near bottom of large propane tanks along Hwy 70. S end of West St. floods, nearing lowest homes. River within about a foot of foundation of Veterans Hall and lowest homes on river. CA Hwy 89 near Clio flooded. Approx. 5600 cfs, like flood of 1/14/1980.		-----	7.74 03/27/1975

			7-	7.32 01/18/1973

9.00	- Minor flooding of lowlands, rural roads, agricultural areas and some low structures between Beckwourth and Sloat California, including Portola. In Portola...water as high as 2 ft below CA Hwy 70 road surface. Nearing Sleepy Pines Motel and just below propane tanks on Hwy 70. About 1.5 to 2 feet below foundations of Veterans Hall and low homes along river near Hwy 70. South end of West Street in Portola flooded. Sewage ponds in Portola nearing capacity. Portion of CA Hwy 89 near Clio begins To flood. Approx. 4800 cfs. Like flood of 3/17/2011.		-----	
			6-	

8.50	- Flood Stage, some minor lowland flooding in reach between Beckwourth and Sloat California, including Portola. Approx. 4100 cfs.		-----	5-

8.00	- Some areas of minor out of bank flow in reach between Beckwourth and Sloat California...including Portola. Approximately 3440 cfs.		-----	

7.50	- Some areas of very minor out of bank flow in reach between Beckwourth and Sloat		-----	

REACH: Gage: Confluence of Big Grizzly Ck below Beckwourth to confluences of Willow and Sulphur Creeks near Clio CA;
Flood Watch/Warning Product Reach for Middle Fork Feather based on MFTC1 forecasts: Beckwourth->Sloat CA.

ELEVATION ZERO: 4850.00

CONTACTS

SQ	CONTACT/REMARKS	PHONE
1	CA DWR Red Bluff CA dables@water.ca.gov, clements@water.ca.gov Wayne Ables is engineer who does gage measurements and gage maintenance; John Clements is supervisor (530-529-7323).	1-530-529-7321
2	CA DWR Beckwourth CA jscarbor@water.ca.gov Jim Scarborough is Middle Fork Feather River Watermaster and is responsible for gage maintenance.	1-530-832-5161
3	Plumas Co. Emergency Manager jerrysipe@countyofplumas.com Jerry Sipe is Plumas Co EM, very knowledgable about flood impacts on the Middle Fork Feather.	1-530-283-6355
4	City of Portola Pub Works Todd Roberts is Public Works Manager, City of Portola.	1-530-832-6804
5	Plumas Co. Sheriff sheriff@pcso.net Greg Hagwood is Plumas County Sheriff.	1-530-283-6375
6	City of Portola Manager l.tigan@ci.portola.ca.us Leslie Tigan is City Manager.	1-530-832-6801
7	USGS Redding USGS Redding operated MFTC1 gage from 1969-1980 and is still knowledgable about the Middle Fork Feather River.	1-530-246-5282

Photos: Middle Fork Feather River near Portola, CA: Gage Location; Low Flow



Top: US view (ENE); Bottom: DS view (SW) from near gage on RB; 9/19/2011, stage 1.90', flow ~18 cfs.
(Photos above provided by Wayne Ables, CA DWR Engineer, Red Bluff, CA)

Photos: Middle Fork Feather River near Portola, CA: Gage Location; High Flow



Top: US view (ENE); Bottom: DS view (SW); from near gage on RB.
3/17/2011, 1245PM; Stage: 9.01', Flow: ~4820 cfs

Photos: Middle Fork Feather River near Portola, CA: Gage Location; Gage House



Views of MFTC1 gage house 3/17/2011, 1245PM; Stage: 9.01', Flow: ~4820 cfs.



Two views of equipment in MFTC1 gage house: Design Analysis 522+ Waterlog DCP & recorder (left) driven by Vaisala shaft encoder and float tape (center), battery is on right.
(Photos above provided taken 9/19/2011 by Wayne Ables, CA DWR Engineer, Red Bluff, CA)

Photos: Middle Fork Feather River near Portola, CA: Gage Location, Staff Gages



Left: Lower MFTC1 staff gage, range: 1.0'-6.92'. Right: Upper MFTC1 staff gage, range: 7.4'-15.0' (Middle staff visible behind and to left of upper staff). Photos above taken 9/19/2011, stage 1.90', flow ~18 cfs by Wayne Ables, CA DWR Engineer, Red Bluff, CA

Photos: Middle Fork Feather River near Portola, CA: Gage Location, Staff Gages



Middle MFTC1 staff gage, range: 7.2' to 12.0'. (9/19/2011 by Wayne Ables, CA DWR Engineer, Red Bluff, CA)



Upper MFTC1 staff gage, range: 7.4'-15.0', 3/17/2011, 1245PM; Stage: 9.01', Flow: 4820 cfs

Photos: Middle Fork Feather River near Portola, CA: During 3/17/2011 High Water



Two views (top to NNE, bottom to NNW) of businesses/heavy equipment/storage facilities on RB in Portola. Structures est. ~2' to 3' above river level this day. Taken from across river at sewage ponds on LB; 3/17/2011, 1:40PM. Stage/flow @MFTC1 gage: 8.99'/4790 cfs.

Photos: Middle Fork Feather River near Portola, CA: During 3/17/2011 High Water



View ESE (US) toward Portola and Beckwourth Peak (7252', in background) from RB, @ CA Hwy 70 Mile Marker 75; across river from sewage ponds. 3/17/2011, 2:45PM. Stage/flow @MFTC1 gage: 8.97'/4760 cfs.



View WSW (DS) from RB, @ CA Hwy 70 Mile Marker 75. 3/17/2011, 2:45PM.
Stage/flow @MFTC1 gage: 8.97'/4760 cfs.

Photos: Middle Fork Feather River near Portola, CA: During 3/17/2011 High Water



View W (DS) from RB, @ CA Hwy 70 Mile Marker 75, DS. Propane tanks at center; Sleepy Pines Motel at right center. 3/17/2011, 2:45PM. Stage/flow @MFTC1 gage: 8.97'/4760 cfs.



View to N from sewage ponds across river; note propane tanks at center, Sleepy Pines Motel at center right. 3/17/2011, 1:40PM. Stage/flow @MFTC1 gage: 8.99'/4790 cfs.

Photos: Middle Fork Feather River near Portola, CA: During 3/17/2011 High Water



Propane tanks surrounded by water; from near CA Hwy 70 Mile Marker 75. Top photo: view to WNW (looking DS). Bottom photo: view to ESE of tanks from near shoulder of CA Hwy 70. 3/17/2011, 2:45PM.

Stage/flow @MFTC1 gage: 8.97'/4760 cfs.

Photos: Middle Fork Feather River near Portola, CA: During 3/17/2011 High Water



View N to Sleepy Pines Motel from near river bank, just N of CA Hwy 70, below grade. Motel possibly subject to flooding near 9.5 ft @ MFTC1 gage. 3/17/2011, 2:55PM. Stage/flow @MFTC1 gage: 8.97'/4760 cfs.



View SW to S and E walls of Portola Veteran's Memorial Hall on RB. Hall possibly subject to flooding at about 10.5 ft @ MFTC1 gage. 3/17/2011, 2:30PM. Stage/flow @MFTC1 gage: 8.97'/4760 cfs.

Photos: Middle Fork Feather River near Portola, CA: During 3/17/2011 High Water



View US (ENE) at some of lowest home subject to flooding in Portola. From S end of West Street along RB, about 0.2 mi DS of Gulling Street Bridge in Portola. 3/17/2011, 2:15PM. Stage/flow @MFTC1 gage: 8.97'/4760 cfs.



View of lowest home at S end of West Street, about 0.2 mi DS of Gulling Street Bridge in Portola. 3/17/2011, 2:15PM. Stage/flow @MFTC1 gage: 8.97'/4760 cfs.

Photos: Middle Fork Feather River at Clio, CA During 3/17/2011 High Water



Looking US along LB (ENE) to Clio Bridge from shoulder of CA Hwy 89 nr Mile Marker 4.5 near Clio turn off.
3/17/2011, 3:40PM. Stage/flow @MFTC1 gage: 8.97'/4760 cfs.



CA Hwy 89 nr Mile Marker 4.5 nr Clio turn off, view to E. River is on left, portion of Clio Bridge visible left center.
Note wet pavement where water floods road (due to culvert on right backed up to river) just beyond sign (right).
Flooding occurred here earlier this day. 3/17/2011, 3:40PM. Stage/flow @MFTC1 gage: 8.97'/4760 cfs.

Photos: Middle Fork Feather River at Clio, CA During 3/17/2011 High Water



View DS (SW) along LB from Clio Bridge. Sharp bend to right in river just beyond trees. Town of Clio is out of picture to right. 3/17/2011, 4:05PM. Stage/flow @MFTC1 gage: 8.96'/4745 cfs.



View DS (W) along RB from Clio Bridge. Center channel is on left, much of flow visible is overland flow. Town of Clio is out of picture to right. 3/17/2011, 4:05PM. Stage/flow @MFTC1 gage: 8.96'/4745 cfs.

Photos: Middle Fork Feather River at Clio, CA During 3/17/2011 High Water



View US (E) along LB from Clio Bridge. Town of Clio is out of picture to left; note structures beyond trees.
3/17/2011, 4:05PM. Stage/flow @MFTC1 gage: 8.96'/4745 cfs.



View of confluence of Sulfur Creek on LB, looking US from Clio Bridge toward the SE. 3/17/2011, 4:05PM.
Stage/flow @MFTC1 gage: 8.96'/4745 cfs.